

ABSTRACT

There is provided a communication device for effectively encoding an audio/music signal while maintaining a predetermined quality by controlling the transmission bit rate of the transmission side considering the use environment of the reception side. In this device, a transmission mode decision unit (101) detects an environment noise contained in the background of the audio/music signal in the input signal and decides the transmission mode controlling the transmission bit rate of the signal transmitted from a communication terminal device (150), which is a communication terminal of the partner side, according to the environment noise level. A signal decoding unit (103) decodes encoded information transmitted from the communication terminal device (150) via a transmission path (110) and outputs the obtained signal as an output signal. Here, the signal decoding unit (103) detects a transmission error by comparing the transmission mode information contained in the encoded information outputted from the transmission path (110), to the transmission mode information obtained by the transmission mode decision unit (101) while considering the transmission delay.